Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

(Currently Amended) A pressure sensitive adhesive comprising:

 a silicone tackifying resin having no greater than about 1.5 wt-% Si-OH functional groups;

a polydiorganosiloxane polyurea copolymer, wherein the mole ratio of isocyanate to amine is in a range of about 0.9: 1 to about 1.1:1.

- 2. (Original) The pressure sensitive adhesive of claim 1 wherein the pressure sensitive adhesive adheres to both high and low surface energy materials as well as those in between, wherein the high surface energy material has a surface energy above about 70 dynes/cm and the low surface energy material has a surface energy below about 50 dynes/cm.
- 3. (Original) The pressure sensitive adhesive of claim 1 wherein when the adhesive is disposed on a 50.8-micrometer thick PET backing at an adhesive thickness of 50.8 micrometers to form a single-coated tape and adhered to a high density polyethylene coupon, the tape displays a 180° peel force of at least about 55 N/dm when measured at a rate of 30.5 cm/min at room temperature after a dwell time of one minute at room temperature.
- 4. (Original) The pressure sensitive adhesive of claim 1 wherein when the adhesive is disposed on a 50.8-micrometer thick PET backing at an adhesive thickness of 50.8 micrometers to form a single-coated tape and adhered to a stainless steel coupon, the tape displays a 180° peel force of at least about 60 N/dm when measured at a rate of 30.5 cm/min at room temperature after a dwell time of one minute at room temperature.

5. (Original) The pressure sensitive adhesive of claim 1 wherein when the adhesive is disposed on a 1 millimeter thick 87.5/12.5 isooctyl acrylate/acrylic acid foam backing at an adhesive thickness of 50.8 micrometers to form a double-coated tape and adhered to a high density polyethylene coupon, the tape displays a 90° peel force of at least about 230 N/dm when measured at a rate of 30.5 cm/min at room temperature after a dwell time of 72 hours at room temperature.

- 6. (Original) The pressure sensitive adhesive of claim 1 wherein when the adhesive is disposed on a 1 millimeter thick 87.5/12.5 isooctyl acrylate/acrylic acid foam backing at an adhesive thickness of 50.8 micrometers to form a double-coated tape and adhered to a stainless steel coupon, the tape displays a 90° peel force of at least about 300 N/dm when measured at a rate of 30.5 cm/min at room temperature after a dwell time of 72 hours at room temperature.
- 7. (Original) The pressure sensitive adhesive of claim 1 wherein when the adhesive is disposed on a 1 millimeter thick 87.5/12.5 isooctyl acrylate/acrylic acid foam backing at an adhesive thickness of 50.8 micrometers to form a double-coated tape and adhered to a polypropylene coupon, the tape displays a 90° peel force of at least about 400 N/dm when measured at a rate of 30.5 cm/min at room temperature after a dwell time of 72 hours at room temperature.
- 8. (Original) The pressure sensitive adhesive of claim 1 wherein the polydiorganosiloxane polyurea copolymer is the reaction product of a polydiorganosiloxane polyamine with a polyisocyanate.
- 9. (Original) The pressure sensitive adhesive of claim 8 wherein the polydiorganosiloxane polyurea copolymer is the reaction product of a polydiorganosiloxane polyamine with a polyisocyanate and a polyfunctional chain extender.

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10. (Original) The pressure sensitive adhesive of claim 1 wherein the polydiorganosiloxane polyurea copolymer comprises the following repeating unit:

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where:

each R is independently an alkyl moiety, a vinyl moiety or higher alkenyl moiety, a cycloalkyl moiety, an aryl moiety, or a fluorine-containing group;

each Z is independently a polyvalent moiety that is an arylene moiety, an aralkylene moiety, an alkylene moiety, or a cycloalkylene moiety;

each Y is independently a polyvalent moiety that independently is an alkylene moiety, an aralkylene moiety or an arylene moiety;

each E is independently hydrogen, an alkyl moiety of 1 to 10 carbon atoms, phenyl, or a moiety that completes a ring structure including Y to form a heterocycle;

each A is independently oxygen or –N(G)–, wherein each G is independently hydrogen, an alkyl moiety of 1 to 10 carbon atoms, phenyl, or a moiety that completes a ring structure including B to form a heterocycle;

B is an alkylene, aralkylene, cycloalkylene, phenylene, polyalkylene, polyalkylene oxide, copolymers, or mixtures thereof, or a moiety completing a ring structure including A to form a heterocycle;

m is a number that is 0 to about 1000;

n is a number that is equal to or greater than 1; and

p is a number that is about 5 or larger.

11. (Original) The pressure sensitive adhesive of claim 10 wherein at least 50% of the R moieties are methyl moieties with the balance being monovalent alkyl or substituted alkyl moieties having 1 to 12 carbon atoms, alkenylene moieties, phenyl moieties, or substituted phenyl moieties.

- 12. (Original) The pressure sensitive adhesive of claim 10 wherein m is a number that is 0 to about 25.
- 13. (Original) The pressure sensitive adhesive of claim 10 wherein n is a number that is greater than 8.
- 14. (Original) The pressure sensitive adhesive of claim 10 wherein p is a number that is about 70 to about 1500.
- 15. (Original) The pressure sensitive adhesive of claim 1 wherein the silicone tackifying resin has no greater than about 1.2 wt-% Si-OH functional groups.
- 16. (Original) The pressure sensitive adhesive of claim 15 wherein the silicone tackifying resin has no greater than about 1.0 wt-% Si-OH functional groups.
- 17. (Original) The pressure sensitive adhesive of claim 1 wherein the silicone tackifying resin is present in an amount of at least about 55 wt-%, based on the weight of the silicone tackifying resin and the polydiorganosiloxane polyurea copolymer.
- 18. (Original) The pressure sensitive adhesive of claim 1 wherein the silicone tackifying resin has an M/Q ratio of at least about 0.7:1.0.
- 19. (Original) The pressure sensitive adhesive of claim 1 wherein the silicone tackifying resin has a molecular weight of about 100 to about 50,000.

20. (Original) The pressure sensitive adhesive of claim 1 further comprising a plasticizer.

- 21. (Original) The pressure sensitive adhesive of claim 1 which is solvent based.
- 22. (Currently Amended) A pressure sensitive adhesive comprising: a silicone tackifying resin having no greater than about 1.5 wt-% Si-OH functional groups; and

a polydiorganosiloxane polyurea copolymer, wherein the mole ratio of isocyanate to amine is in a range of about 0.9: 1 to about 1.1:1;

wherein the pressure sensitive adhesive satisfies at least one of the following criteria: the pressure sensitive adhesive adheres to both high and low surface energy materials as well as those in between, wherein the high surface energy material has a surface energy above about 70 dynes/cm and the low surface energy material has a surface energy below about 50 dynes/cm;

when the adhesive is disposed on a 50.8-micrometer thick PET backing at an adhesive thickness of 50.8 micrometers to form a single-coated tape and adhered to a high density polyethylene coupon, the tape displays a 180° peel force of at least about 55 N/dm when measured at a rate of 30.5 cm/min at room temperature after a dwell time of one minute at room temperature;

when the adhesive is disposed on a 50.8-micrometer thick PET backing at an adhesive thickness of 50.8 micrometers to form a single-coated tape and adhered to a stainless steel coupon, the tape displays a 180° peel force of at least about 60 N/dm when measured at a rate of 30.5 cm/min at room temperature after a dwell time of one minute at room temperature;

when the adhesive is disposed on a 1 millimeter thick 87.5/12.5 isooctyl acrylate/acrylic acid foam backing at an adhesive thickness of 50.8 micrometers to form a double-coated tape and adhered to a high density polyethylene coupon, the tape displays a 90° peel force of at least about 230 N/dm when measured at a rate of 30.5 cm/min at room temperature after a dwell time of 72 hours at room temperature;

when the adhesive is disposed on a 1 millimeter thick 87.5/12.5 isooctyl acrylate/acrylic acid foam backing at an adhesive thickness of 50.8 micrometers to form a double-coated tape and adhered to a stainless steel coupon, the tape displays a 90° peel force of at least about 300 N/dm

when measured at a rate of 30.5 cm/min at room temperature after a dwell time of 72 hours at room temperature; or

when the adhesive is disposed on a 1 millimeter thick 87.5/12.5 isooctyl acrylate/acrylic acid foam backing at an adhesive thickness of 50.8 micrometers to form a double-coated tape and adhered to a polypropylene coupon, the tape displays a 90° peel force of at least about 400 N/dm when measured at a rate of 30.5 cm/min at room temperature after a dwell time of 72 hours at room temperature.

23. (Currently Amended) A pressure sensitive adhesive comprising:

a silicone tackifying resin having no greater than about 1.5 wt-% Si-OH functional groups and an M/Q ratio of at least about 0.7:1.0; and a polydiorganosiloxane polyurea copolymer;

wherein the pressure sensitive adhesive adheres to both high and low surface energy materials as well as those in between, wherein the high surface energy material has a surface energy above about 70 dynes/cm and the low surface energy material has a surface energy below about 50 dynes/cm and

wherein an adhesive tape construction comprising the adhesive displays an at least about 53% greater aged peel performance to high density polyethylene or an at least about 24% greater aged peel performance to stainless steel relative to an adhesive tape construction comprising a comparable molecular weight silicone tackifying resin with greater than 1.5 wt-% silanol functionality.

- 24. (Original) The pressure sensitive adhesive of claim 23 wherein an adhesive tape construction comprising the adhesive displays a greater initial peel performance to high density polyethylene or stainless steel relative to an adhesive tape construction comprising a comparable molecular weight silicone tackifying resin with greater than 1.5 wt-% silanol functionality.
- 25. (Cancelled)

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26. (Currently Amended) The pressure sensitive adhesive of claim-23 A pressure sensitive adhesive comprising:

a silicone tackifying resin having no greater than about 1.5 wt-% Si-OH functional groups and an M/Q ratio of at least about 0.7:1.0; and

a polydiorganosiloxane polyurea copolymer;

wherein the pressure sensitive adhesive adheres to both high and low surface energy materials as well as those in between, wherein the high surface energy material has a surface energy above about 70 dynes/cm and the low surface energy material has a surface energy below about 50 dynes/cm and

wherein a sample comprising the adhesive coated on a fluorosilicone-coated 50.8-micrometer-thick PET film at an adhesive thickness of about 50.8 micrometers and aged for one week at 70°C followed by one day at room temperature, the force required to remove the film at an angle of 180° is no greater than about 20 N/dm.

- 27. (Original) The pressure sensitive adhesive of claim 23 further comprising a plasticizer.
- 28. (Currently Amended) A pressure sensitive adhesive comprising:

a silicone tackifying resin having no greater than about 1.5 wt-% Si-OH functional groups silicone and an M/Q ratio of at least about 0.7:1.0; and

a polydiorganosiloxane polyurea copolymer <u>having a mole ratio of isocyanate to amine in a range of about 0:9:1 to 1:1:1 and comprising the following repeating unit: _____ ___</u>

where:

each R is independently an alkyl moiety, a vinyl moiety or higher alkenyl moiety, a cycloalkyl moiety, an aryl moiety, or a fluorine-containing group;

each Z is independently a polyvalent moiety that is an arylene moiety, an aralkylene moiety, an alkylene moiety, or a cycloalkylene moiety;

each Y is independently a polyvalent moiety that independently is an alkylene moiety, an aralkylene moiety or an arylene moiety;

each E is independently hydrogen, an alkyl moiety of 1 to 10 carbon atoms, phenyl, or a moiety that completes a ring structure including Y to form a heterocycle;

each A is independently oxygen or -N(G)—, wherein each G is independently hydrogen, an alkyl moiety of 1 to 10 carbon atoms, phenyl, or a moiety that completes a ring structure including B to form a heterocycle;

B is an alkylene, aralkylene, cycloalkylene, phenylene, polyalkylene, polyalkylene oxide, copolymers, or mixtures thereof, or a moiety completing a ring structure including A to form a heterocycle;

m is a number that is 0 to about 1000; n is a number that is equal to or greater than 1; and p is a number that is about 5 or larger.

29. (Currently Amended) A pressure sensitive adhesive solution comprising:

a silicone tackifying resin having no greater than about 1.5 wt-% Si-OH functional groups;

a-polydiorganosiloxane polyurea copolymer, wherein the mole ratio of isocyanate to amineis in a range of about 0.9: 1 to about 1.1:1;

an organic solvent; and a processing aid.

- 30. (Original) The pressure sensitive adhesive solution of claim 29 wherein the processing aid is transient.
- 31. (Original) An adhesive article comprising a backing and the pressure sensitive adhesive of claim 1 disposed on at least one major surface thereof.

32. (Original) The adhesive article of claim 31 wherein the backing is a foam backing.

- 33. (Original) The adhesive article of claim 31 which is a transfer tape.
- 34. (Original) The adhesive article of claim 31 further comprising a primer between the backing and the pressure sensitive adhesive.
- 35. (Original) The adhesive article of claim 34 wherein the primer comprises a polydiorganosiloxane polyurea copolymer comprising electron rich groups.
- 36. (Original) The adhesive article of claim 35 wherein the electron rich groups are tertiary amine groups, pyridine groups, and combinations thereof.
- 37. (Original) The adhesive article of claim 34 wherein the backing comprises acid functional groups.
- 38. (Original) An adhesive article comprising a backing and the pressure sensitive adhesive of claim 22 disposed on at least one major surface thereof.
- -39. - (Original) The adhesive article of claim-38-wherein-the-backing is a foam backing.
- 40. (Original) The adhesive article of claim 38 which is a transfer tape.
- 41. (Original) The adhesive article of claim 38 further comprising a primer between the backing and the pressure sensitive adhesive.
- 42. (Original) The adhesive article of claim 41 wherein the primer comprises a polydiorganosiloxane polyurea copolymer comprising electron rich groups.

43. (Original) The adhesive article of claim 42 wherein the electron rich groups are tertiary amine groups, pyridine groups, and combinations thereof.

- 44. (Original) The adhesive article of claim 38 wherein the backing comprises acid functional groups.
- 45. (Original) An adhesive article comprising a backing and the pressure sensitive adhesive of claim 28 disposed on at least one major surface thereof.
- 46. (Original) The adhesive article of claim 45 wherein the backing is a foam backing.
- 47. (Original) The adhesive article of claim 45 which is a transfer tape.
- 48. (Original) The adhesive article of claim 45 further comprising a primer between the backing and the pressure sensitive adhesive.
- 49. (Original) The adhesive article of claim 48 wherein the primer comprises a polydiorganosiloxane polyurea copolymer comprising electron rich groups.
- 50. (Original) The adhesive article of claim 49 wherein the electron rich groups are tertiary amine groups, pyridine groups, and combinations thereof.
- 51. (Original) The adhesive article of claim 49 wherein the backing comprises acid functional groups.
- 52. (Original) An article comprising two substrates and the pressure sensitive adhesive of claim 1 disposed therebetween.

53. (Original) The article of claim 52 comprising a vibration damper, a reclosable fastener, a panel, an abrasive pad, a spacer, a body side molding, a flexographic plate, a muntin bar, a spacer, or a sign.

- 54. (Original) An article comprising two substrates and the pressure sensitive adhesive of claim 22 disposed therebetween.
- 55. (Original) The article of claim 54 comprising a vibration damper, a reclosable fastener, a panel, an abrasive pad, a spacer, a body side molding, a flexographic plate, a muntin bar, a spacer, or a sign.
- 56. (Original) An article comprising two substrates and the pressure sensitive adhesive of claim 28 disposed therebetween.
- 57. (Original) The article of claim 56 comprising a vibration damper, a reclosable fastener, a panel, an abrasive pad, a spacer, a body side molding, a flexographic plate, a muntin bar, a spacer, or a sign.
- 58. (Currently Amended) A method of making a pressure sensitive adhesive comprising combining a silicone tackifying resin having no greater than about 1.5 wt-% Si-OH functional groups and a polydiorganosiloxane polyurea copolymer, wherein the mole ratio-of-isocyanate to amine is in a range of about 0.9: 1 to about 1.1:1.
- 59. (Original) The method of claim 58 wherein the polydiorganosiloxane polyurea copolymer is prepared by reacting a polydiorganosiloxane polyamine with a polyisocyanate and a polyfunctional chain extender.
- 60. (Original) The method of claim 58 wherein the polydiorganosiloxane polyurea copolymer comprises the following repeating unit:

where:

each R is independently an alkyl moiety, a vinyl moiety or higher alkenyl moiety, a cycloalkyl moiety, an aryl moiety, or a fluorine-containing group;

each Z is independently a polyvalent moiety that is an arylene moiety, an aralkylene moiety, an alkylene moiety, or a cycloalkylene moiety;

each Y is independently a polyvalent moiety that independently is an alkylene moiety, an aralkylene moiety or an arylene moiety;

each E is independently hydrogen, an alkyl moiety of 1 to 10 carbon atoms, phenyl, or a moiety that completes a ring structure including Y to form a heterocycle;

each A is independently oxygen or -N(G)-, wherein each G is independently hydrogen, an alkyl moiety of 1 to 10 carbon atoms, phenyl, or a moiety that completes a ring structure including B to form a heterocycle;

B is an alkylene, aralkylene, cycloalkylene, phenylene, polyalkylene, polyalkylene oxide, copolymers, or mixtures thereof, or a moiety completing a ring structure including A to form a heterocycle;

m is a number that is 0 to about 1000;

n is a number that is equal to or greater than 1; and

p is a number that is about 5 or larger.

61. (Original) The method of claim 60 wherein the silicone tackifying resin has no greater than about 1.2 wt-% Si-OH functional groups.

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62. (Original) The method of claim 60 wherein the silicone tackifying resin is present in an amount of at least about 55 wt-%, based on the weight of the silicone tackifying resin and the polydiorganosiloxane polyurea copolymer.

- 63. (Original) The method of claim 60 wherein the silicone tackifying resin has an M/Q ratio of at least about 0.7:1.0.
- 64. (New) A pressure sensitive adhesive comprising:
 a silicone tackifying resin having no greater than about 1.5 wt-% Si-OH functional groups;
 and

a polydiorganosiloxane polyurea copolymer, wherein when the adhesive is disposed on a 50.8-micrometer thick PET backing at an adhesive thickness of 50.8 micrometers to form a single-coated tape and adhered to a high density polyethylene coupon, the tape displays a 180° peel force of at least about 55 N/dm when measured at a rate of 30.5 cm/min at room temperature after a dwell time of one minute at room temperature.

65. (New) A pressure sensitive adhesive comprising:
a silicone tackifying resin having no greater than about 1.5 wt-% Si-OH functional groups;
and

a polydiorganosiloxane polyurea copolymer, wherein when the adhesive is disposed on a 50.8-micrometer thick-PET backing at an adhesive thickness of 50.8 micrometers to form a single-coated tape and adhered to a high density polyethylene coupon, the tape displays a 180° peel force of at least about 60 N/dm when measured at a rate of 30.5 cm/min at room temperature after a dwell time of one minute at room temperature.

66. (New) A pressure sensitive adhesive comprising:
a silicone tackifying resin having no greater than about 1.5 wt-% Si-OH functional groups;
and

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a polydiorganosiloxane polyurea copolymer, wherein when the adhesive is disposed on a 1 millimeter thick 87.5/12.5 isooctyl acrylate/acrylic acid foam backing at an adhesive thickness of 50.8 micrometers to form a double-coated tape and adhered to a high density polyethylene coupon, the tape displays a 90° peel force of at least about 230 N/dm when measured at a rate of 30.5 cm/min at room temperature after a dwell time of 72 hours at room temperature.

67. (New) A pressure sensitive adhesive comprising:
a silicone tackifying resin having no greater than about 1.5 wt-% Si-OH functional groups;
and

a polydiorganosiloxane polyurea copolymer, wherein when the adhesive is disposed on a 1 millimeter thick 87.5/12.5 isooctyl acrylate/acrylic acid foam backing at an adhesive thickness of 50.8 micrometers to form a double-coated tape and adhered to a high density polyethylene coupon, the tape displays a 90° peel force of at least about 300 N/dm when measured at a rate of 30.5 cm/min at room temperature after a dwell time of 72 hours at room temperature.

68. (New) A pressure sensitive adhesive comprising:
a silicone tackifying resin having no greater than about 1.5 wt-% Si-OH functional groups;
and

a polydiorganosiloxane polyurea copolymer, wherein when the adhesive is disposed on a 1 millimeter thick 87.5/12.5 isooctyl acrylate/acrylic acid foam backing at an adhesive thickness of 50.8 micrometers to form a double-coated tape and adhered to a high density polyethylene coupon, the tape displays a 90° peel force of at least about 400 N/dm when measured at a rate of 30.5 cm/min at room temperature after a dwell time of 72 hours at room temperature.

69. (New) An adhesive article comprising a backing and a pressure sensitive adhesive comprising a silicone tackifying resin having no greater than about 1.5 wt-% Si-OH functional groups; and

a polydiorganosiloxane polyurea copolymer, disposed on at least one major surface thereof, and a primer between the backing and the pressure sensitive adhesive wherein the primer comprises a polydiorganosiloxane polyurea copolymer comprising electron rich groups.

70. (New) An adhesive article comprising: a backing;

a pressure sensitive adhesive comprising a silicone tackifying resin having no greater than about 1.5 wt-% Si-OH functional groups; and

a polydiorganosiloxane polyurea copolymer, disposed on at least one major surface thereof; and a primer comprising a polydiorganosiloxane polyurea copolymer comprising electron rich groups disposed between the backing and the pressure sensitive adhesive, wherein the pressure sensitive adhesive satisfies at least one of the following criteria:

the pressure sensitive adhesive adheres to both high and low surface energy materials as well as those in between, wherein the high surface energy material has a surface energy above about 70 dynes/cm and the low surface energy material has a surface energy below about 50 dynes/cm;

when the adhesive is disposed on a 50.8-micrometer thick PET backing at an adhesive thickness of 50.8 micrometers to form a single-coated tape and adhered to a high density polyethylene coupon, the tape displays a 180° peel force of at least about 55 N/dm when measured at a rate of 30.5 cm/min at room temperature after a dwell time of one minute at room temperature;

when the adhesive is disposed on a 50.8-micrometer thick PET backing at an adhesive thickness of 50.8 micrometers to form a single-coated tape and adhered to a stainless steel coupon, the tape displays a 180° peel force of at least about 60 N/dm when measured at a rate of 30.5 cm/min at room temperature after a dwell time of one minute at room temperature;

when the adhesive is disposed on a 1 millimeter thick 87.5/12.5 isooctyl acrylate/acrylic acid foam backing at an adhesive thickness of 50.8 micrometers to form a double-coated tape and adhered to a high density polyethylene coupon, the tape displays a

90° peel force of at least about 230 N/dm when measured at a rate of 30.5 cm/min at room temperature after a dwell time of 72 hours at room temperature;

when the adhesive is disposed on a 1 millimeter thick 87.5/12.5 isooctyl acrylate/acrylic acid foam backing at an adhesive thickness of 50.8 micrometers to form a double-coated tape and adhered to a stainless steel coupon, the tape displays a 90° peel force of at least about 300 N/dm when measured at a rate of 30.5 cm/min at room temperature after a dwell time of 72 hours at room temperature; or

when the adhesive is disposed on a 1 millimeter thick 87.5/12.5 isooctyl acrylate/acrylic acid foam backing at an adhesive thickness of 50.8 micrometers to form a double-coated tape and adhered to a polypropylene coupon, the tape displays a 90° peel force of at least about 400 N/dm when measured at a rate of 30.5 cm/min at room temperature after a dwell time of 72 hours at room temperature.

71. (New) An adhesive article comprising: a backing;

a pressure sensitive adhesive comprising a silicone tackifying resin having no greater than about 1.5 wt-% Si-OH functional groups; and

a polydiorganosiloxane polyurea copolymer, disposed on at least one major surface thereof; and a primer comprising a polydiorganosiloxane polyurea copolymer comprising electron rich groups disposed between the backing and the pressure sensitive adhesive, wherein the polydiorganosiloxane polyurea copolymer comprises the repeating unit:

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where:

each R is independently an alkyl moiety, a vinyl moiety or higher alkenyl moiety, a cycloalkyl moiety, an aryl moiety, or a fluorine-containing group;

each Z is independently a polyvalent moiety that is an arylene moiety, an aralkylene moiety, an alkylene moiety, or a cycloalkylene moiety;

each Y is independently a polyvalent moiety that independently is an alkylene moiety, an aralkylene moiety or an arylene moiety;

each E is independently hydrogen, an alkyl moiety of 1 to 10 carbon atoms, phenyl, or a moiety that completes a ring structure including Y to form a heterocycle;

each A is independently oxygen or -N(G)—, wherein each G is independently hydrogen, an alkyl moiety of 1 to 10 carbon atoms, phenyl, or a moiety that completes a ring structure including B to form a heterocycle;

B is an alkylene, aralkylene, cycloalkylene, phenylene, polyalkylene, polyalkylene oxide, copolymers, or mixtures thereof, or a moiety completing a ring structure including A to form a heterocycle;

m is a number that is 0 to about 1000;

n is a number that is equal to or greater than 1; and

p is a number that is about 5 or larger.